

Fluid Cell Sheet Hydroforming Presses

TRIFORM

Manufactured by Beckwood



Features & Benefits

- High-performance sheet metal and composite forming capability
- Dramatically reduced tooling costs through elimination of mated dies
- Minimized reliance on skilled labor through intuitive, programmable control system with built-in recipe handling
- No need for pits or special foundations due to compact, flush-floor designs
- Even application of pressure outperforms traditional rubber pad forming
- Universal bladder allows multiple parts to be formed in a single cycle
- Fast, inexpensive bladder changes for increased up-time and reduced costs
- Simple preventive maintenance reduces unexpected downtime

Hydroforming Technology, Re-Invented

Triform's [Fluid Cell Sheet Hydroforming](#) presses utilize the force of a pressurized bladder (or diaphragm) to shape sheet material over a male form block or into a female cavity.

The process offers high-performance forming capability through the even application of pressure on every square inch of the part's surface. This equal pressure, which is reliably programmable via Triform's intuitive control platform, offers net shape part production through the minimization of wrinkling, increased part definition and reduced manual hand finishing.

Triform's Fluid Cell process results in dramatically reduced tooling costs, as traditional, precision matched die sets are eliminated. In their place, is a flexible yet robust bladder, which conforms to any shape inside the forming chamber, allowing for the formation of multiple different parts in a single press cycle. Tooling can be made quickly and much more economically

from a variety of materials including steel, aluminum, poured epoxies, 3D printed materials and even wood.

A Diverse Family for Maximum Flexibility

Triform offers a family of Fluid Cell models, from the ultra-compact 16-5BD featuring an 8-second cycle time, to the capable 2496-5BD, offering a larger forming area and shuttle for increased productivity.

Service & Support After the Sale

Our team of dedicated support technicians are available for turnkey installation, on-site training and troubleshooting & service.

Complimentary remote OEM support via [Beckwood's PressLink Module](#) allows technicians remote, real-time access to the machine via a standard internet connection.

Built-in redundancies, including dual linear and pressure transducers, minimize unplanned downtime.

Preventive maintenance packages, performed by factory-trained Triform support technicians, protect your investment and prolong the life of your press.

[View Other Fluid Cell Hydroforming Presses](#)



Built for you. Built to last. Built in the USA.

Product Specifications



MODEL	16-5BD	24-5BD	1648-5BD	1648-10BD	2448-5BD	2448-10BD	2478-5BD	2496-5BD
Max Chamber Pressure:	5,000 PSI (345 bar)	5,000 PSI (345 bar)	5,000 PSI (345 bar)	10,000 PSI (689 bar)	5,000 PSI (345 bar)	10,000 PSI (689 bar)	5,000 PSI (345 bar)	5,000 PSI (345 bar)
Forming Area:	16" Diameter (406mm)	24" Diameter (609mm)	16" X 48" (406 x 1219mm)	16" X 48" (406 x 1219mm)	24" X 48" (610 x 1219mm)	24" X 48" (610 x 1219mm)	24" X 78" (610 x 1981mm)	24" X 96" (610 x 2348mm)
Form Tool Clearance:	4.75" (120mm)	5" (127mm)	6" (152mm)	6" (152mm)	6" (152mm)	6" (152mm)	6" (152mm)	6" (152mm)
Dimensions								
Length:	42.5" (108cm)	54" (137cm)	192" (488cm)	192" (488cm)	81" (206cm)	81" (206cm)	218.5" (555cm)	396.5" (1007cm)
Width:	93" (236 cm)	100" (254 cm)	81" (206 cm)	81" (206 cm)	138" (351 cm)	138" (351 cm)	137.75" (350cm)	146.75" (373cm)
Height:	73.5" (187 cm)	86" (218 cm)	101" (254 cm)	101" (254 cm)	94" (239 cm)	94" (239 cm)	94" (239 cm)	93½" (237 cm)
Total System Weight:	8,900 lbs (4,037 kg)	26,000 lbs (11,800 kg)	60,000 lbs (27,200 kg)	60,000 lbs (27,200 kg)	55,000 lbs (25,000 kg)	90,000 lbs (40,823 kg)	90,500 lbs (41,050 kg)	130,000 lbs (58,967 kg)
Power System								
Main Motor Horsepower:	15 HP	15 HP	15 HP	50 HP	15 HP	50 HP	75 HP	75 HP
Working Fluid:	AW 46	AW 46	AW 46	AW 46	AW 46	AW 46	AW 46	AW 46
Heat Exchanger:	Included	Included	Included	Included	Included	Included	Included	Included
Main Power:	480V/230V	480V/230V	480V/230V	480V/230V	480V/230V	480V/230V	480V/230V	480V/230V
Phase:	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase
Hertz:	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Control System								
Electrical / PLC:	Allen Bradley	Allen Bradley	Allen Bradley	Allen Bradley	Allen Bradley	Allen Bradley	Allen Bradley	Allen Bradley
Touchscreen Interface:	8" Color Touchscreen	8" Color Touchscreen	8" Color Touchscreen	8" Color Touchscreen	8" Color Touchscreen	8" Color Touchscreen	8" Color Touchscreen	8" Color Touchscreen



Built for you. Built to last. Built in the USA.